

## RF Exposure Report

**Report No.:** SA150513C25A

**FCC ID:** E2K-APL280B5

**Model:** APL28-0B5

**Received Date:** May 13, 2015

**Test Date:** Jun. 01 ~ Jun. 09, 2015

**Issued Date:** Jun. 25, 2015

**Applicant:** Dell Inc.

**Address:** One Dell Way, Round Rock, Texas 78682, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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### Release Control Record

Issue No.	Description	Date Issued
SA150513C25A	Original release	Jun. 25, 2015



# 1 Certificate of Conformity

**Product:** Wireless Network Security Appliance  
**Brand:** DELL, DELL SONICWALL, SONICWALL  
**Model:** APL28-0B5  
**Sample Status:** Engineering sample  
**Applicant:** Dell Inc.  
**Test Date:** Jun. 01 ~ Jun. 09, 2015  
**Standards:** FCC Part 2 (Section 2.1091)  
KDB 447498 D01 General RF Exposure Guidance v06  
IEEE C95.1-2005

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** Jun. 25, 2015  
Celine Chou / Specialist

**Approved by :** Ken Liu , **Date:** Jun. 25, 2015  
Ken Liu / Senior Manager

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 21cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	29.78	7.44	21	0.951	1
5180-5240	23.73	7.44	21	0.236	1
5260-5320	23.55	7.44	21	0.227	1
5500-5700	22.71	7.44	21	0.187	1
5745-5825	19.73	7.44	21	0.094	1

Note: 2.4GHz & 5GHz: Directional gain =  $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/3] = 7.44\text{dBi}$

\*The 2.4 and 5GHz cannot transmit simultaneously.

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